

IN THE CLAIMS

This listing of the claims replaces all prior listings.

Listing of Claims:

1. (Currently Amended) A cathode material, comprising:
a complex oxide including lithium (Li), manganese (Mn), chromium (Cr) and at least one kind selected from the group consisting of titanium (Ti), magnesium (Mg) and aluminum (Al),
wherein,
a composition ratio of lithium to the total of manganese, chromium, titanium, magnesium and aluminum in the complex oxide is larger than 1 in molar ratio, and
the complex oxide is represented by a chemical formula $\text{Li}_a\text{Mn}_b\text{Cr}_c\text{Al}_{1-b-c}\text{O}_d$ (where the values of a, b, c and d are within a range of $1.0 < a < 1.6$, $0.5 < b + c < 1$ and $1.8 < d < 2.5$).
2. (Cancelled)
3. (Currently Amended) ~~A cathode material according to claim 1~~ A cathode material, comprising:
a complex oxide including lithium (Li), manganese (Mn), chromium (Cr) and at least one kind selected from the group consisting of titanium (Ti), magnesium (Mg) and aluminum (Al),
wherein,
a composition ratio of lithium to the total of manganese, chromium, titanium, magnesium and aluminum in the complex oxide is larger than 1 in molar ratio, and
wherein the complex oxide is represented by a chemical formula $\text{Li}_{1+e}(\text{Mn}_f\text{Cr}_g\text{M}_{1-f-g})_{1-e}\text{O}_h$ (where M is at least one kind of element selected from the group consisting of titanium, magnesium and aluminum, and the values of e, f, g and h are within a range of $0 < e < 0.4$, $0.2 < f < 0.5$, $0.3 < g < 1$, $f + g < 1$ and $1.8 < h < 2.5$).
4. (Currently Amended) A method of manufacturing a cathode material, the cathode material comprising a complex oxide including lithium (Li), manganese (Mn), chromium (Cr)

and at least one kind selected from the group consisting of titanium (Ti), magnesium (Mg) and aluminum (Al), the method comprising the step of:

mixing materials with ethanol ~~or water~~ as a dispersion medium to synthesize the complex oxide.

5. (Currently Amended) A battery, comprising:

a cathode;

an anode; and

an electrolyte,

wherein,

the cathode comprises a complex oxide including lithium (Li), manganese (Mn), chromium (Cr) and at least one kind selected from the group consisting of titanium (Ti), magnesium (Mg) and aluminum (Al), and a composition ratio of lithium to the total of manganese, chromium, titanium, magnesium and aluminum in the complex oxide is larger than 1 in molar ratio, and

the complex oxide is represented by a chemical formula $\text{Li}_a \text{Mn}_b \text{Cr}_c \text{Al}_{1-b-c} \text{O}_d$ (where the values of a, b, c and d are within a range of $1.0 < a < 1.6$, $0.5 < b + c < 1$ and $1.8 < d < 2.5$).

6. (Cancelled)

7. (Currently Amended) ~~A battery according to claim 5,~~ A battery, comprising:

a cathode;

an anode; and

an electrolyte,

wherein,

the cathode comprises a complex oxide including lithium (Li), manganese (Mn), chromium (Cr) and at least one kind selected from the group consisting of titanium (Ti), magnesium (Mg) and aluminum (Al), and a composition ratio of lithium to the total of manganese, chromium, titanium, magnesium and aluminum in the complex oxide is larger than 1 in molar ratio, and

wherein the complex oxide is represented by a chemical formula $\text{Li}_{1+e}(\text{Mn}_f \text{Cr}_g \text{M}_{1-f-g})_{1-e} \text{O}_h$ (where M is at least one kind of element selected from the group consisting of titanium, magnesium and aluminum, and the values of e, f, g and h are within a range of $0 < e < 0.4$, $0.2 < f < 0.5$, $0.3 < g < 1$, $f + g < 1$ and $1.8 < h < 2.5$).